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PROVISIONAL SPECIFICATION.

**Improvements in the Manufacture of Antiseptic and Medicated Soaps,
Ointments, and the like.**

I, THOMAS GEORGE FERMOR HESKETH, Baronet, of Easton Neston, Towcester, Northamptonshire, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to the production of soaps, ointments, embrocations and similar preparations having antiseptic and medicinal properties, and depends upon the property possessed by formaldehyde of forming condensation-products.

10 In carrying out this invention, oily or fatty substances are treated at various temperatures with formaldehyde or its solutions under a reflux condenser. For example, lanolin or wool fat may be treated in the above manner with an aqueous solution of formaldehyde for some time on a water-bath.

The resulting compound which possesses a higher melting point than lanolin may be used directly or incorporated with various substances to render its application easy and pleasant, or to produce an embrocation.

15 When soap is required a condensation-product produced as above described may be incorporated with the soap mass before pouring into the frames. Or, part of the tallow or fatty substance to form the fatty acid of the soap may be treated with formaldehyde as described and the condensation-product added towards the end of the saponification—the manufacture then being proceeded with in the usual way.

20 Dated this 19th day of March 1898.

THOMAS GEORGE FERMOR HESKETH.

COMPLETE SPECIFICATION.

**Improvements in the Manufacture of Antiseptic and Medicated Soaps,
Ointments, and the like.**

25 I, SIR THOMAS GEORGE FERMOR HESKETH, Baronet, of Easton Neston, Towcester, in the County of Northampton, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

30 This invention relates to the production of soaps, ointments, embrocations and similar preparations having antiseptic and medicinal properties, and depends upon the property possessed by formaldehyde of forming condensation-products.

In carrying out my invention, oily or fatty substances are treated at suitable

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temperatures with formaldehyde or its solutions under a reflux condenser at normal atmospheric pressure or in a closed vessel at increased pressure. In order to make my invention clear I will describe the production of the condensation compound of lanolin which may be called lanoform. Any quantity of lanolin is mixed with an excess of formaldehyde solution and introduced into a vessel fitted with a reflux condenser so that any vapours which might otherwise escape may be condensed and returned to the containing vessel. By way of example, it may be stated that 1 part by volume of 40% formaldehyde solution to 4 parts of lanolin will give a satisfactory result, but any other proportions may be used provided that the formaldehyde is in excess. The contents of the vessel are heated in the usual manner either by boiling water in a water bath or by steam to a temperature of about 100° C. for several hours according to the quantity of material being manufactured. On a small scale 5 to 6 hours is found sufficient.

The excess of formaldehyde solution is then removed, and the resulting compound is found to have a higher melting point than lanolin and when hot to smell of formaldehyde. This compound is found to exercise most beneficial action upon the skins of man and animals and may be applied directly or incorporated with various well known substances such as vaselin, olive oil, cold cream and the like to render its application easy and pleasant or may be mixed with lanolin.

When soap is required a condensation product as above described may be incorporated with the soap mass before pouring into the cooling frames, or part of the fatty substance of the soap may be previously treated with formaldehyde as described and the condensation product added towards the end of the saponification the manufacture being then proceeded with in the usual manner. The amount of condensation product incorporated with the soap mass may be varied as desired or as found suitable to the specific uses to which the soap is to be applied, but I find 5 *per cent.* to be a good proportion; while for ointments &c. the amount varies from 5 *per cent.* to 25 *per cent.* according to the specific purpose for which the ointment &c. is intended. For a cream for chapped hands and the like for example the proportion might be from 5 to 10 *per cent.* while for ointments as much as 25 *per cent.* might be employed.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. The manufacture of condensation compounds of formaldehyde with lanolin or other oily or fatty substance consisting in mixing the oily or fatty substance with an excess of formaldehyde, then heating the mixture to a suitable temperature and under pressure if necessary, and afterwards removing the excess of formaldehyde, substantially as described.

2. The manufacture of medicinal and antiseptic ointment, embrocation and the like from condensation compounds formed in the manner indicated in the preceding claim consisting in incorporating said compounds with vaselin, olive oil, cold cream, lanolin and the like, substantially as described.

3. The manufacture of soap from condensation compounds formed in the manner indicated in Claim 1 hereof, consisting in incorporating said compounds with the soap mass before pouring into the cooling frame, substantially as described.

Dated this 16th day of December 1898.

F. W. GOLBY,
36, Chancery Lane, London, W.C., Patent Agent for the Applicant.



